

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Serenoa repens*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	WATER	Fruit		870000.0	0.43230600391521135	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	FIBER(DIETARY)	Fruit		400000.0	0.3503027017814249	--
18	OLEIC-ACID	Fruit	11400.0	332000.0	2.0780900532057363	--
7	LAURIC-ACID	Fruit	12080.0	240000.0	2.5127886336588405	--
0	FIBER(CRUDE)	Fruit		130000.0	-0.1382131172135812	--
6	MYRISTIC-ACID	Fruit	4800.0	116000.0	5.20324818328259	--
0	PROTEIN	Fruit	14300.0	110000.0	0.006722289355626528	--
0	SUGARS	Fruit	13000.0	100000.0	-0.4714231435724017	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	FATTY-ACIDS	Fruit	30000.0	92000.0		--
13	PALMITIC-ACID	Fruit	3800.0	87000.0	0.9888703977409701	--
35	TANNIN	Root		75800.0	-0.020511406931147124	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
35	TANNIN	Stem		54800.0	-0.5063597006118161	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
27	LINOLEIC-ACID	Fruit	1840.0	36000.0	0.15250551841720983	--
0	ASH	Fruit	3770.0	29000.0	-0.7163626815965894	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	FAT	Fruit	3510.0	27000.0	-0.435028261598363	--
0	EO	Fruit	5400.0	20000.0	-0.4312216686487416	--
0	CAPRINIC-ACID	Fruit		18000.0		--
14	POTASSIUM	Fruit	2325.0	17900.0	-0.00146044676900111	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PHOSPHORUS	Fruit	2105.0	16200.0	3.94375903676458	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
5	CAPRYLIC-ACID	Fruit	920.0	13000.0		--
0	SABAL-SERRULATA-ACIDIC-POLYSACCHARIDE	Fruit		6000.0		--
24	PECTIN	Fruit	605.0	4640.0	-0.5751588917297177	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
28	CALCIUM	Fruit	605.0	4640.0	0.18085004106340866	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
65	MAGNESIUM	Fruit	510.0	3930.0	0.8336264369951842	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
3	CAPRIC-ACID	Fruit	1000.0	3200.0	1.413939973823674	--
8	STEARIC-ACID	Fruit	720.0	2305.0	-0.12635840819349412	--
1	CAPROIC-ACID	Fruit	600.0	1920.0		--
0	LINOLENIC-ACID	Fruit	240.0	770.0	-0.8207413427736995	--
1	SODIUM	Fruit	65.0	495.0	-0.1370104923804784	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
5	DAUCOSTEROL	Fruit	47.0	416.0		--
47	BETA-SITOSTEROL	Fruit	33.0	281.0	-0.42504048544050566	--
0	3,7,11,15,19,23,27,31-OCTAMETHYL-DOTRIACONTA-2-CIS-6-CIS-10-CIS-14-CIS-18-TRANS-22-TRANS-26-TRANS-OCTAEN-1-OL	Fruit		270.0		--
6	BETA-SITOSTEROL-D-GLUCOSIDE	Fruit		220.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	1-OCTACOSANOL	Fruit	58.0	187.0		--
2	PHYTOSTEROLS	Fruit		128.0	-1.0530092799127762	--
2	CAMPESTEROL	Fruit	28.0	90.0	0.10490824541035179	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
112	ASCORBIC-ACID	Fruit	11.0	88.0	-0.27901743011351393	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
39	NIACIN	Fruit	10.0	75.0	0.19119140633704487	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
6	IRON	Fruit	9.0	66.0	-0.26568397107756236	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	TRICONTANOL	Fruit	13.0	42.0		--
12	STIGMASTEROL	Fruit	12.0	38.0	-0.6454844173695994	--
0	SERENOA-POLYPRENOL-3	Fruit		35.0		--
53	BETA-CAROTENE	Fruit	3.0	24.0	-0.1044090615440342	--
0	3,7,11,15,19,23,31,35- NONAMETHYL- HEXATRIACONTA-2-CIS-6- CIS-10-CIS-14-CIS-18-CIS- 22-TRANS-26-TRANS-30- TRANS-3,4-TRANS-NON	Fruit		19.0		--
11	GERANYL-GERANIOL	Fruit		16.0		--
14	MANGANESE	Fruit	1.2	8.9	-0.3448520509579119	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	SILICON	Fruit	1.0	7.8	-0.5831009322457926	--
15	RIBOFLAVIN	Fruit	1.0	7.3	0.4905916673393905	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	HEXACOSANOL	Fruit	2.0	7.0		--
77	ZINC	Fruit	0.7	5.2	-0.7552020844764787	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	SERENOA-POLYPRENOL-2	Fruit		5.0		--
31	THIAMIN	Fruit	0.6	5.0	-0.0425885992841977	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	THIAMINE	Fruit	0.7	5.0	0.7348687812439542	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	COBALT	Fruit	0.6	5.0	0.07018107914482831	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	TETRACOSANOL	Fruit	1.6	5.0		--
60	SELENIUM	Fruit	0.3	2.6	0.2585513872614546	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
24	CHROMIUM	Fruit	0.2	1.4	-0.3109918416443979	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
17	FARNESOL	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	CAROTENE	Seed Oil				--
0	SPHINGOLIPIDES	Fruit				--
13	PALMITIC-ACID	Seed				--
3	MANNOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	CERAMIDES	Fruit				--
5	CAPRYLIC-ACID	Seed Oil				--
0	RHAMNOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	P-OXYBENZOIC-ACID	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
11	SORBITOL	Fruit				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

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101	APIGENIN	Fruit				By assumption; if a glycoside is reported, it is automatically assumed that the aglycone is present also in the plant, though sometimes in traces only.
0	24-METHYLENE-CYCLOARTENOL	Fruit				--
1	CAPROIC-ACID	Seed Oil				--
0	POLYSACCHARIDE-S4	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	P-OXYBENZALDEHYDE	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
87	RUTIN	Fruit				--
25	P-COUMARIC-ACID	Fruit Juice				--
2	RHOIFOLIN	Plant				Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
3	CAPRIC-ACID	Seed Oil				--
0	POLYSACCHARIDE-S3	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
18	OLEIC-ACID	Seed				--
2	RHOIFOLIN	Fruit				--
6	1-MONOMYRISTIN	Fruit				--
4	KAEMPFEROL-3-O-GLUCOSIDE	Fruit				--
0	OCTACOSAN-1-OL	Fruit				--
8	FRUCTOSE	Fruit				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	APIGENIN-7-O-RHAMNOGLUCOSIDE	Fruit				--
28	VANILLIN	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	POLYSACCHARIDE-S2	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
6	MYRISTIC-ACID	Seed				--
0	POPULNIN	Fruit				--
6	1-MONOLAURIN	Fruit				--
18	MANNITOL	Seed Oil				--
0	BETA-SITOSTEROL-3-O-MYRISTYL-BETA-GLUCOSIDES	Plant				Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
0	UNDECANOIC-ACID	Fruit				--
24	VANILLIC-ACID	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	POLYSACCHARIDE-S1	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	PHYTOL	Fruit				--
18	MANNITOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	XYLOSE	Fruit				--
4	GLUCURONIC-ACID	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

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21	LUPEOL	Fruit				--
0	BETA-SITOSTEROL-3-O-MYRISTATE	Plant				Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
2	TRIDECANOIC-ACID	Fruit				--
22	ISOQUERCITRIN	Fruit				--
0	LIPASE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	GLUCOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	LUPEN-3-ONE	Fruit				--
0	ARABINOSE	Fruit				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
0	BETA-SITOSTEROL-3-O-DIGLUCOSIDE	Plant				Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
1	TRIACONTAN-1-OL	Fruit				--
13	P-HYDROXY-BENZOIC-ACID	Plant				--
7	LAURIC-ACID	Seed				--
1	GALACTOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
3	DECANOIC-ACID	Fruit				--

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6	ANTHRANILIC-ACID	Fruit				--
0	URONIC-ACID	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	STEROLS	Mesocarp				--
6	SYRINGIC-ACID	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	P-HYDROXYBENZALDEHYDE	Plant				--
0	HEXACOSAN-1-OL	Fruit				--
61	FERULIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FUCOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ACETOVANILLONE	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
75	KAEMPFEROL	Fruit				By assumption; if a glycoside is reported, it is automatically assumed that the aglycone is present also in the plant, though sometimes in traces only.
0	STEROLS	Exocarp				--
4	SYRINGALDEHYDE	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	GLYCEROL	Seed Oil				--
7	CYCLOARTENOL	Fruit				--

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0	ACETOSYRINGONE	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	STEARIC-ACID	Seed				--